

[54] ELECTRIC SHAVER

[75] Inventor: Tetsuya Okada, Sumoto, Japan

[73] Assignee: Sanyo Electric Co., Ltd., Osaka, Japan

[21] Appl. No.: 808,431

[22] Filed: Dec. 16, 1991

[51] Int. Cl.<sup>5</sup> ..... G05B 1/10

[52] U.S. Cl. .... 388/815; 388/901;  
388/907.5; 388/937

[58] Field of Search ..... 388/809-815,  
388/937, 901, 903-904, 910, 915-916, 917, 929,  
937; 30/40, 42-46

[56] References Cited

U.S. PATENT DOCUMENTS

4,594,777 6/1987 Kimoto et al. .... 30/42  
5,077,506 12/1991 Krause ..... 388/815 X

Primary Examiner—William M. Shoop, Jr.

Assistant Examiner—David Martin

Attorney, Agent, or Firm—Darby & Darby

[57] ABSTRACT

An electric shaver comprises: a current detecting circuit which detects load current of a motor; a microcomputer which samples the values detected by the current detecting circuit periodically to judge the size thereof, and the positive or negative results of the difference with the values sampled at last, to output a predetermined signal respectively responsive to the results; and a control circuit which controls the rotational speed of the motor according to the output signal from the microcomputer, whereby in the case where load current of the motor detected by the current detecting circuit is large, the microcomputer reckons that beards are thick, conversely, in the case where the load current is small, the microcomputer reckons that the beards are thin, thereby driving the motor at an optimum speed respectively.

6 Claims, 6 Drawing Sheets

